

## SEQUENCE LISTING

<110> Rubio Susan, Victor  
Salazar Torres, Oscar  
Julain Esquivivias, Maria  
Gonzales Garcia, Vincente  
Munoz Gomez, Ramona  
Gomez-Acebo Gullon, Eduardo  
Lopez Corcoles, Horacio

<120> Protection of Plants Using Rhizoctonia

60  
130> USP79179

140> US 09/744,502

141> 2001-01-24

150> PCT/GB99/02406

151> 1999-07-23

160> 28

170> PatentIn version 3.0

210> 1

211> 15

212> DNA

213> Rhizoctonia sp.

400> 1

ccctattaag gggca

15

210> 2

211> 15

212> DNA

213> Rhizoctonia sp.

400> 2

ccgtaaaaaa gtctt

15

210> 3

211> 20

212> DNA

213> Rhizoctonia sp.

<400> 3  
ccacacaaac ccattgtatt 20

<210> 4  
<211> 18  
<212> DNA  
<213> Rhizoctonia sp.

<400> 4  
aattgttcct ttgggcac 18

09  
210> 5  
211> 16  
212> DNA  
213> Rhizoctonia sp.

20  
gaaccttta ttggac 16

21  
210> 6  
211> 20  
212> DNA  
213> Rhizoctonia sp.

<400> 6  
ctcaatttat tttaaaacga 20

<210> 7  
<211> 19  
<212> DNA  
<213> Rhizoctonia sp.

<400> 7  
ttgaatgaat atagagttg 19

<210> 8  
<211> 21  
<212> DNA  
<213> Rhizoctonia sp.



acacaaaccc cattgtattt aaattg

26

<210> 14

<211> 26

<212> DNA

<213> Rhizoctonia sp.

<400> 14

acataaactc caatttaata aatctg

26

<210> 15

<211> 242

<212> DNA

<213> Rhizoctonia sp.

<400> 15

agaggaagta aaagtcgtaa caagggtttcc gtaggtgaac ctgcggaagg atcattattg

60

atgaatata gagttggttg tgcgtggctc ctccgggagc atgtgcacgc tttctctttc

120

atccacacac acctgtgcac ttgtgagacg gaggaccgta aaaaagtctt ccgtctatta

180

aaccacacaa accccattgt atttaaattg aatgtaattg atgtaacgca tcattaggaa

240

ct

242

<210> 16

<211> 243

<212> DNA

<213> Rhizoctonia sp.

<400> 16

ttagaggaag taaaagtcgt aacaaggttt ccgtaggtga acctgcggaa ggatcattat

60

tgaatgaata tagagttggt tgctcgtggc tcctccggga gcatgtgcac gctttctctt

120

tcacccacac acacctgtgc acttgtgaga cggaggaccg taaaaaagtc ttccgtctat

180

taaaccacac aaacccatt gtattttaaat tgaatgtaat tgatgtaacg catcattaga

240

act

243

<210> 17  
 <211> 238  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 17  
 ggaagtaaaa gtcgtaacaa ggtttccgta ggtgaacctg cggaaggatc attattgaat 60  
 gaatatagag ttggttgctg ctggctcctc cgggagcatg tgcacgcttt ctctttcatc 120  
 cacacacacc tgtgcacttg tgagacggag gaccgtaaaa atgtcttccg tctattaaac 180  
 cacacaaacc ccattgtatt taaattgaat gtaattgatg taacgcatca ttagaact 238

<210> 18  
 <211> 236  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 18  
 ggataaagt cgtaacaagg tttccgtagg tgaacctgcg gaaggatcat tattgaatga 60  
 atatagagtt ggttgctgct ggctcctccg ggagcatgtg cacgctttct ctttcatcca 120  
 cacacacctg tgcacttggt agacggagga ccgtaaaaaa gtcttccgtc tattaaacca 180  
 cacaaccccc attgtattta aattgaatgt aattgatgta acgcatcatt agaact 236

<210> 19  
 <211> 237  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 19  
 gggataaaag tcgtaacaag gtttccgtag gtgaacctgc ggaaggatca ttattgaatg 60  
 aatatagagt tggttgtcgc tggctcctcc gggagcatgt gcacgctttc tctttcatcc 120  
 acacacacgt gtgcacttgt gagacggagg accgtaaaaa agtcttccgt ctattaaacc 180  
 acacaaaccc catcgtatth aagttgaatg taattgatgt aacgcatcat tagaact 237

<210> 20

<211> 245  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 20  
 ttagagggga ataaaaagtc gtaacaaggt ttccgtaggt gaacctgcgg aaggatcatt 60  
 attgaatgaa tatagagttg gttgtcgtg gctcctccgg gagcatgtgc acgctttctc 120  
 tttcatccac acacacctgt gcacttgtga gacggaggac cgtaaaaaag tcttccgtct 180  
 attaaaccac acaaacccca ttgtatttaa attgaatgta attgatgtaa cgcatacatta 240  
 aaact 245

05744500  
 0713001

<210> 21  
 <211> 246  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 21  
 ttagagggga agtaaaaagt cgtaacaagg ttccgtagg tgaacctgcg gaaggatcat 60  
 tattgaatga atatagagtt ggttgtcgt ggctcctccg ggagcatgtg cacactttct 120  
 ctttcatcca cacacacctg tgcacttgtg agacggagga ccgtaaaaaa gtcttccgtc 180  
 tattaaacca cacaaccccc attgtattta aattgaatgt aattgatgta acgcatacatt 240  
 agaact 246

<210> 22  
 <211> 252  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 22  
 ttcccttttt tagaggaagt aaaagtcgta acaaggtttc cgtaggtgaa cctgcggaag 60  
 gatcattatt gaatgaatat agagttgggt gtcgctgggt cctccgggag catgtgcacg 120  
 ctttctcttt catccacaca cacctgtgca cttgtgagac ggaggaccgt aaaaaagtct 180  
 tccgtctatt aaaccacaca aacccatttg tatttaaatt gaatgtaatt gatgtaacgc 240

atcattagaa ct

252

&lt;210&gt; 23

&lt;211&gt; 230

&lt;212&gt; DNA

&lt;213&gt; Rhizoctonia sp.

&lt;400&gt; 23

agtcgtaaca aggtttccgt aggtgaacct gcggaaggat cattattgaa tgaatataga 60

gttggttgct gctggctcct cgcgggagca tgtgcacgct ttctctttca tccacacaca 120

cctgtgcact tgtgagacgg aggaccgtaa aaaagtcttc cgtctattaa accacacaaa 180

ccccattgta tttaaattga atgtaattga tgtaacgcat cattagaact 230

&lt;210&gt; 24

&lt;211&gt; 232

&lt;212&gt; DNA

&lt;213&gt; Rhizoctonia sp.

&lt;400&gt; 24

gtcgtataca ggtttccgta ggtgaacctg cggaaggatc attatcgaat gaacaatggg 60

gatcggttgt cgctggcttc ttcattgagg catgtgcacg cctttctcta tttcatccac 120

acacacctgt gaacttgtga gacggatagt agtaaaaaaa gtcttcgtct gtcaatacat 180

aaactccaat ttaataaatc tgaatgtaat tgatgtaaca catctttaaa ct 232

&lt;210&gt; 25

&lt;211&gt; 226

&lt;212&gt; DNA

&lt;213&gt; Rhizoctonia sp.

&lt;400&gt; 25

gtcgtataca ggtttccgta ggtgaacctg cggaaggatc attatcgaat gaacaatggg 60

gatcggttgt cgctggcttc ttcattgagg catgtgcacg cctttctcta tttcatccac 120

acacacctgt gaacttgtga gacggaggac cgtaaaaaag tcttctgtct acataaactc 180

cáatttáata aatctgaatg taattgatgt aacacatctt taaact 226

<210> 26  
 <211> 173  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 26  
 agagtcggtt gtcgctggct gtctttggca gcatgtgcac gccttctctt ttcattccaca 60

cacccctgtg cacttgtgag actggaggcc gtaaaaagcc ttcagtctgc taaattcata 120

tacaaactca tttaattgaa ctgaatgtac ttgatgtaac gcatcattaa act 173

<210> 27  
 <211> 230  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 27  
 aaagtcgtaa caaggtttcc gtaggtgaac ctgcggaagg atcattattg aatgaactta 60

tgagtcggtt gtcgctggctg tctttggcag catgtgcacg ccttctctat tcatccacac 120

acccctgtgc acttgtgaga ctggaggccg taaaaagcct tcagtgctaa attcatatac 180

aaactcattt aactgcactg aatgtacttg atgtaacgca tcattacact 230

<210> 28  
 <211> 152  
 <212> DNA  
 <213> Rhizoctonia sp.

<400> 28  
 agagtttggg tgtagctggg ccctaattaa cttgggggca tgtgcacacc tttctctttc 60

atcccataca cacctgtgca cctgtgagac agatgttttc tagaggggga aggaacttta 120

ttggacctac tctccttgga ccttctgtct ac 152